

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 March 2005 (03.03.2005)

PCT

(10) International Publication Number
WO 2005/018796 A1

(51) International Patent Classification⁷: B01J 19/00

(21) International Application Number:
PCT/EP2004/009351

(22) International Filing Date: 20 August 2004 (20.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03447216.7 21 August 2003 (21.08.2003) EP

(71) Applicant (for all designated States except US): PAM-
GENE B.V. [NL/NL]; Burgemeester Loeffplein 70a,
NL-5211 RX Den Bosch (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): VAN BEUNINGEN,
Marinus, Gerardus, Johannus [NL/NL]; Polderkade 27,
NL-5345 RR Oss (NL). KIEVITS, Tim [NL/NL]; Grote
Gent 2, NL-5261 BT Vught (NL). RUIJTENBEEK, Rob
[NL/NL]; Boven Zevenwouden 59, NL-3524 CK Utrecht
(NL).

(74) Agents: DE CLERCQ, Ann et al.; De Clercq, Brants &
Partners, E. Gevaertdreef 10a, B-9830 Sint-Martens-Latem
(BE).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SI, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report
— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: MICROARRAY SUPPORT FOR BIOPROBE SYNTHESES

(57) Abstract: A system for conducting chemical and/or biochemical reactions is provided, comprising a reaction substrate (A) with a multiplicity of reactor zones (C), said reaction substrate (A) having a substantially flat top surface and a substantially flat bottom surface, the reaction substrate (A) being porous with a multiplicity of essentially parallel pores enabling liquid flow through, said pores having a diameter of about 10 µm to 10 nm, characterised in that said flat top surface is bonded to the bottom of a first rigid support (B), said rigid support (B) comprising a multiplicity of through going holes extending from the top of said rigid support (B) to the bottom of said rigid support (B), and said through going holes defining the reactor zones (C). The invention further relates to the use of said system, an apparatus comprising said system as well as an incubation device for holding said system and a loading station.

WO 2005/018796 A1